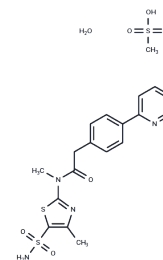


## Pritelivir mesylate hydrate

## Chemical Properties

CAS No. :	1428321-10-1
Formula:	C <sub>19</sub> H <sub>24</sub> N <sub>4</sub> O <sub>7</sub> S <sub>3</sub>
Molecular Weight:	516.61
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Pritelivir mesylate hydrate is active against herpes simplex virus types 1 and 2 (IC <sub>50</sub> : 0.02 μM against HSV1-2). Pritelivir mesylate hydrate is an inhibitor of the viral helicase-primase complex. Pritelivir mesylate hydrate shows antiviral activity in vitro and in animal models of herpes simplex virus (HSV) infection.
Targets(IC <sub>50</sub> )	Others,HSV
In vivo	Pritelivir mesylate hydrate is the first in a class of antiviral agents that inhibit HSV replication by targeting the viral helicase-primase enzyme complex. Pritelivir mesylate hydrate has potent and resistance-breaking antiviral efficacy with potential for the treatment of potentially life-threatening HSV type 1 and 2 infections, including herpes simplex encephalitis. Pritelivir mesylate hydrate (0.03-45 mg/kg) significantly increases survival. Pritelivir mesylate hydrate (0.3-30 mg/kg) reduces mortality against HSV-1, E-377. Combination therapies of Pritelivir mesylate hydrate at 0.1 or 0.3 mg/kg/dose with Acyclovir (10 mg/kg/dose) are protective when compared to the vehicle treated group against HSV-2, strain MS [2][3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9357 mL	9.6785 mL	19.357 mL
5 mM	0.3871 mL	1.9357 mL	3.8714 mL
10 mM	0.1936 mL	0.9678 mL	1.9357 mL
50 mM	0.0387 mL	0.1936 mL	0.3871 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ligat G, et al. Identification of Amino Acids Essential for Viral Replication in the HCMV Helicase-PrimaseComplex. Front Microbiol. 2018 Oct 23;9:2483.

Wald A, et al. Helicase-primase inhibitor Pritelivir for HSV-2 infection. N Engl J Med. 2014 Jan 16;370(3):201-10.

Quenelle DC, et al. Efficacy of pritelivir and acyclovir in the treatment of herpes simplex virus infections in a mouse model of herpes simplex encephalitis. Antiviral Res. 2018 Jan;149:1-6.

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